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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,289	07/08/2003	Kuan-Hua Chen	ACMP0083USA	1288

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EXAMINER

PHAM, TUAN

ART UNIT PAPER NUMBER

2618

DATE MAILED: 03/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/604,289

Applicant(s)

CHEN ET AL.

Examiner

TUAN A. PHAM

Art Unit

2643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-13 and 15-20 is/are rejected.
- 7) ☒ Claim(s) 3 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1, 4-5, 10, 11-12, 15-16, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm").**

Regarding claims 1 and 11, Lindholm teaches a method and a cellular phone comprising (see figure 1):

a housing (see figures 3&4, front cover 21, 22);

a cover detachably installed on the housing, the cover containing an ID module for identifying the cover (see figures 2, 3, 4, 10, the cover 21 is included a ID unit 20 for installing on body of mobile phone 1, page 8);

a transceiver (read on transmitter/receiver circuit 19 and processor 18) for controlling operation of the cellular phone, the transceiver containing a detection port for communicating with the ID module of the cover and determining identification of the cover (see figures 2&10, processor 18, ID unit 20, ports 23&25, page 8);

a memory electrically connected to the transceiver, and a database stored in the memory for providing operation parameters to the transceiver according to the identification of the cover (see figures 2&11, memory 33, pages 11-12).

Regarding claims 4, 12, and 15, Lindholm further teaches the memory to store parameter providing user interface attributes to the transceiver according to the identification of the cover (see figure 2, memory 17b, pages 11-12).

Regarding claims 5 and 16, Lindholm further teaches database contains a keypad-mapping configuration corresponding to each cover (see figures 5&6, page 8).

Regarding claims 10 and 20, Lindholm further teaches the detection port of the transceiver is capable of communicating with the ID module of the cover in parallel for determining the identification of the cover (see figure 10, the connector 25 of cover with ID unit 20 is parallel with connector 23 of the body of the mobile phone).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm") in view of Pedersen et al. (U.S. Pub. No.: 2003/0100273, hereinafter, Pedersen").

Regarding claims 2 and 13, Lindholm discloses the invention but does not disclose providing Finite Impulse Response (FIR) filter coefficients to the transceiver for improving acoustics of the cellular phone. However, in an analogous art, Pedersen teaches such features (see col. 1, [0011], it is obvious that using the filter for reducing noise or echo in the system it is a well known technique in a design of the communication area).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Pedersen into view of Lindholm in order to improve the leak tolerance in the mobile phone as suggested by Pedersen at column 1, [0011].

5. Claims 6-7, 9, 17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm") in view of Wycherley et al. (U.S. Pub. No.: 2002/0037738, hereinafter, Wycherley").

Regarding claims 6 and 17, Lindholm discloses the invention but does not disclose a set of sound files corresponding to each cover. However, in an analogous art, Wycherley teaches such features (see col.1, [0009]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Wycherley into view of Lindholm in order to provide the user with different appearance and a favorite music.

Regarding claim 7, Wycherley further teaches graphical images corresponding to each cover (see col.1, [0009]).

Regarding claims 9 and 19, Wycherley further teaches the ID module of the cover contains a unique resistance value for identifying the cover, and the transceiver measures the resistance for determining the identification of the cover (see col.5, claim 8).

6. Claims 8 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm") in view of Nielsen (U.S. Pub. No.: 2005/0090280).

Regarding claims 8 and 18, Lindholm discloses the invention but does not disclose LED. However, in an analogous art, Nielsen teaches such features (see col.6, [0068]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Nielsen into view of Lindholm in order to display the illumination effect to the user when the cover is partly transparent as suggested by Nielsen at column 5, [0068]).

Allowable Subject Matter

7. Claims 3 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In order to expedite the prosecution of this application, the applicants are also requested to consider the following references. Although White et al. (U.S. Pub. No. 2006/0030377), and Roper (U.S. Pub. No. 2004/0053650) are not applied into this Office Action; they are also called to Applicants attention. They may be used in future Office Action(s).

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit 2618
March 17, 2006
Examiner

Tuan Pham



Matthew Anderson
SPE 2618